Carbon Block Assembly A-PT-5500-PS

SPECIALTY WATER TECHNOLOGIES

Ultra-Pure Technologies

Function: The Carbon Block Assembly replaces carbon filled tanks for portable Reverse Osmosis machines used in hemodialysis. Carbon Filtration is part of the water purification Pre-Treatment (Before Reverse Osmosis). The Carbon Block Filtration System works through adsorption to remove free chlorine and chloramines from the Municipal incoming water supply. The system protects the RO and most importantly, the Patients on Hemodialysis, from Chlorine and Chloramines. There are (2) carbon block filters in housings. The filters are connected in series with #1 adsorbing the entire load (worker) and #2 performing a polishing task (polisher) while providing back-up capability. UV Disinfection is optional.

Materials: Mounted on Sturdy Powder Coated Steel Bracket, (2) Plastic Filter Housings, (2) Carbon Block Filters, (2) Polypro Sample Ports, 2 GPM UV Disinfection System, Hospital Grade Power Strip, Inlet and Outlet Pressure gauges, Polypro fittings, FDA approved PVC Gray Tubing, Stainless Steel Washers and Screws,

For Patient Safety, Chlorine testing must be done according to facility and regulatory guidelines.

Dialysis must be discontinued if chlorine/chloramine levels exceed the limit specified in facility and regulatory guidelines.

Mechanics: Electrical requirements are 120 VAC

Tap water flows through the tanks allowing adsorption to take place in the carbon blocks.

User Quality Checks: Follow all facility and regulatory policies and protocols regarding this piece of equipment. Allow only adequately trained and qualified personnel to service this equipment. Daily monitor the inlet and outlet pressures along with the Delta Pressure (pressure drop) across the filter while the RO is running. Daily monitoring should be done to ensure that chlorine/chloramine free water is available for patient dialysis. This requires testing for chlorine/chloramines as outlined in facility and regulatory policy and protocol.

Factors Effecting Operation:

High pH in incoming water can effect chlorine removal.

Replace Carbon Block Filters on schedule as per Facility and Regulatory protocol.

The Carbon Block Filters must be replaced if the chlorine/ chloramine breakthrough is greater than the facility and/or regulatory guidelines.

Do not use mounted electrical strip to plug in hemodialysis machine.

Specialty Water Technologies, Inc. (SWT) provides high quality, innovative water purification systems, components and supplies primarily in the medical/dialysis market. A FDA 510k company SWT is dedicated to high quality equipment manufacturing with exemplary customer service and satisfaction. The owners and employees of SWT have a diverse background of medical, dialysis, manufacturing and business management expertise.

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